27 April 1987

MEMORANDUM FOR: Director, Office of Training and Education

ATTENTION: Chief, Training Support Division
                  Office of Training and Education

THROUGH: [   ] Director   STAT
                  Current Production and Analytic Support
                  [   ] DI Career Development Officer   STAT

FROM: Chief, Cartography, Design and Publishing Group/CPAS

SUBJECT: Full-Time Academic Sponsorship for [   ]   STAT
                  GS-08 Analytical Statistician, Part-Time Employee

REFERENCE: Training, [   ]   STAT

1.   I recommend that [   ] be granted full-time   STAT
academic sponsorship at George Mason University for two 1987 summer
sessions and the 1987 fall semester. CPAS has operating funds available
to cover the estimated cost of $2,200 ($1,800 tuition; $400 books) plus
paid salary (32 hours per week).

2.   The Statistical Analysis Staff, CPAS is responsible for
performing statistical reviews of all DI, NIC, STIC, and TTIC products
for accuracy, consistency, and soundness of methodology. [   ] a   STAT
GS-08 statistician, is a member of the NIC Support Branch that performs
statistical reviews of highly technical products from OSWR, OGI, and
SOVA. The courses that [   ] will be taking will enable her not   STAT
only to be more effective in this review process, but the math and
regional familiarization courses will enable her to demonstrate more
analytical depth in her reviews, especially in the area of methodologies
(see attachment). Upon completion of these courses, [   ] will   STAT
convert to full time status and the Agency will gain the full benefit of
her potential and skills in one of our crucial areas. The long-term
return to the Agency for this investment in this talented individual far
outweighs the cost involved.

[   ]   STAT

Attachment: Course description

ADMINISTRATIVE-INTERNAL-USE-ONLY

SUBJECT: Full-Time Academic Sponsorship for [   ]   STAT
          GS-08 Analytical Statistician, Part-Time Employee

CONCUR:

[   ]   2 8 APR 1987   STAT
_____   _____
Director, Current Production and   Date
Analytic Support

_____   _____
Career Development Officer, DI   Date

APPROVED:

[   ]   4 JUN 1987   STAT
_____   _____
Director, Office of Training and   Date
Education

C/CDP/CPAS/[   ] (27 Apr 87)   STAT

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     1 - CPAS/Admin Pers

ADMINISTRATIVE-INTERNAL USE ONLY

Attachment

Summer and Fall Courses for [   ]   STAT

Summer Courses:

Government 321 - Contemporary Political Ideologies

Government 321 covers the study of ideologies shaping the
actions and evolution of political movements. This course will
enhance my skills on how socialism, Communism, liberalism, and
facism affect the economic decision making of governments.

Math 213 - Analytic Geometry and Calculus III; Math 304 - Elementary Differential Equations; Math 372 - Mathematics

These courses will provide me with knowledge in fundamental
concepts of analytic geometry, calculus, algebra, trigonometry,
and the metric conversion. The subject matters can be applied
to qualitative analytical problems that are encountered in my
job. The study of the derivative is an important example
because rates of changes in statistics can be calculated by
using derivatives. It is necessary to study these subject
matters from various points of view before the meanings will
become clear enough to fully develop familiarity on these
topics or offer suggestions on alternate methodologies. These
courses will provide me with a tool for solving complex
quantitative problems found throughout my job.

Fall Courses:

Philosophy 301 - History of Western Philosophy

The development of the history of Western philosophy
directly affects the decisionmaking of today's governments.
How an area, country, or economic group perceives problems
differently affects its attempted solution. This is especially
important in economics where "rational" decisions seem to be
avoided.

Anthropology 332 - Cultures in Comparative Perspective

Cultural influences and biases of countries mold their
political and economic policies. In studying cultural
differences, I will be improving my knowledge toward
understanding why a country makes an economic choice based on
institutional constraints. For example, institutional
constraints frequently mold economic policy in less developed
countries.

<u>Math 321 - Abstract Algebra; Math 315 - Advanced Calculus;
Math 313 - Introduction to Applied Mathematics</u>

These courses will cover higher order differentiation; integrals and series; complex analysis; special functions; and mathematical topics. With greater knowledge and know-how in these subjects, I will be able to better understand concepts and methodologies presented in the extremely mathematical and scientific papers published by several offices in the DI (for example, OSWR and SOVA).

<u>Number of Credits Per Course</u>

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Government 321 --- 3
Math 213 --------- 3
Math 304 --------- 3
Math 372 --------- 3
Philosophy 301 --- 3
Anthropology 332 - 3
Math 321 --------- 3
Math 315 --------- 3
Math 313 --------- 3

Total ---------- 27 (summer & fall
                       semesters)
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